

Figure 1

008011" 61640250

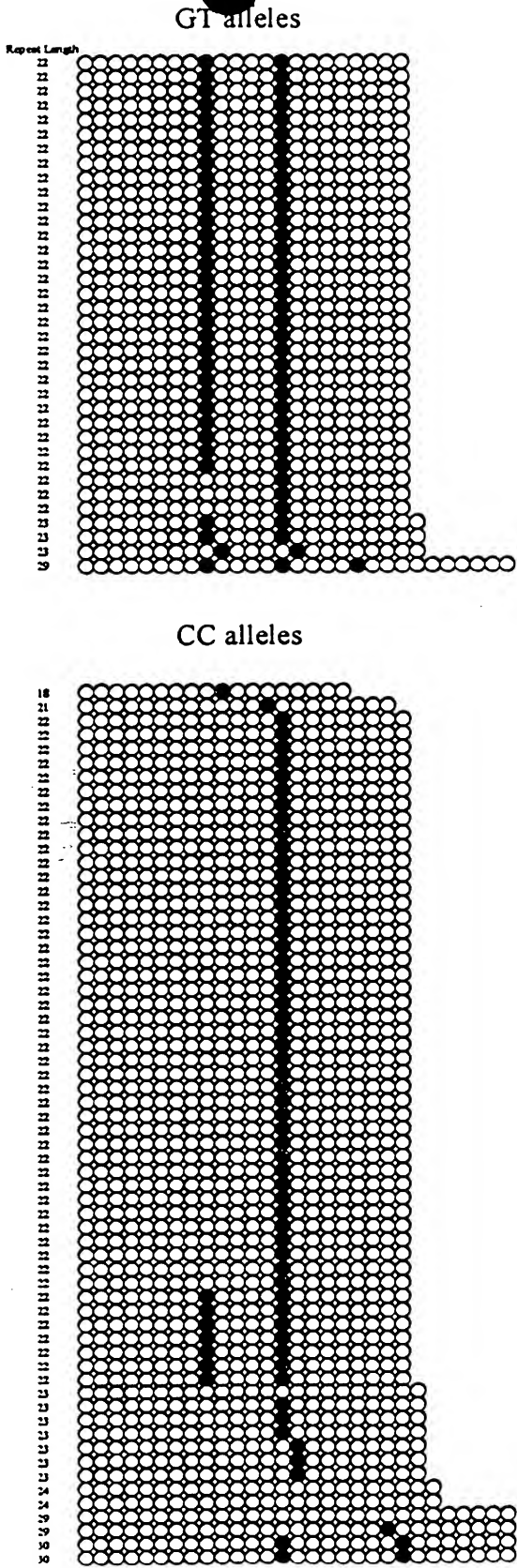
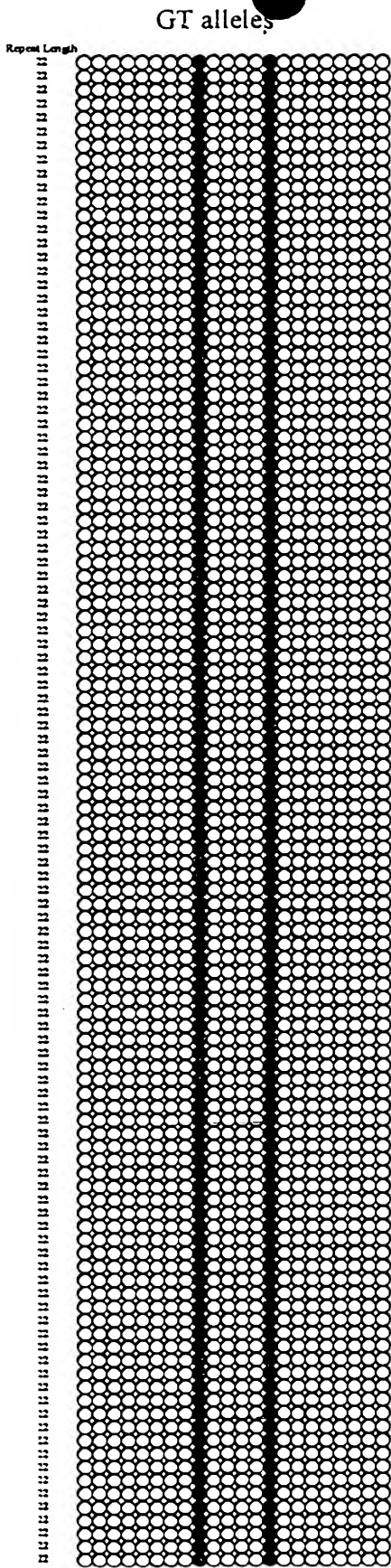


Figure 2

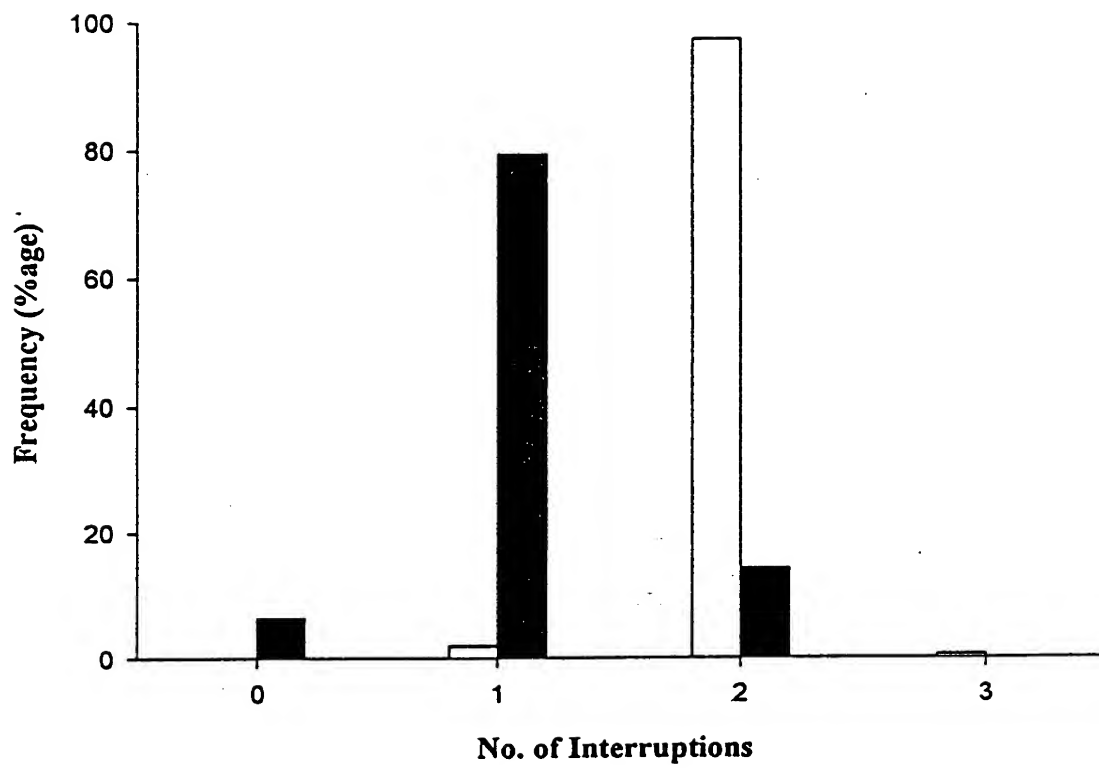


Figure 3


[SNP Report](#)

SNP Details

General

[SNP Home](#)
[dbSNP Summary](#)
[How To Submit](#)
[Genome SNP RFA](#)
[FAQ](#)
[RefSNP Summary Info](#)
[FTP SERVER](#)
[Database Schema](#)
[Blast SNP](#)
[Submission Form](#)

Search

[Main Search](#)
[By Submitter](#)
[New Batches](#)
[Method](#)
[Population](#)
[Publication](#)
[By Gene Name](#)
[Chromosome Report](#)

SNP:

Handle|local_snp_id: FGU-CBT | SKB.2K.1.1

NCBI Assay Id(ss#): 869704

Reference SNP Id(rs#): 695871

STS Information: Not submitted

From SNP Database:

Submitter Handle: FGU-CBT
 Submitter Batch ID: SKB.2K.1
 Release Date: Aug 2 2000 2:53PM
 Molecular type: Genomic
 No. of Chromosomes sampled: 215
 Synonym defined:
 Organism: Homo sapiens
 Population: INDRP
 Submitter Method ID: SCA2-SNP
 Citation: Single Nucleotide Polymorphism in SCA2 Gene.

[View citation details](#)

NCBI Assay ID: 869704
 Submitter SNP ID: SKB.2K.1.1
 Synonyms:
 LOCUSID: 6111
 Submitter STS ID:
 STS Accession: not available
 GenBank Accession: U70121
 Gene Name: Human ataxin-2 gene/ Spinocerebellar ataxia 2 (SCA2) gene
 Length: 459

Flanking Sequence Information:

5' Assay: CTCGCGCTCA GACTGTTTTC GTAGCAACGG CAACGCCGGC GCGCCGTTTC GCGCCGGCTC
 CCGCGCGCTC CTTGGTCTCG GCGGGCCCTC CCGCCCTTC GTGCTC

Observed: G/C

3' Assay: TCCTTCTCCC CCTCGCCAGC CCGGGCGCCC CTCCGCCCGC GCCAACCCTC GCCTCCCCCG
 TCGGCGCCCC TCGTCCCCCG CCGCGTTCCG GCGTCTCTT GCGCGCGCCC GCTCCCGGCT
 GTCCCCCCCC GCGGTGCGAG CCGGTGTATG GCGCCCTCAC CATGTGCT

3' Flank: GAAGCCCCAG CAGCAGCAGC AGCAGCAGCA GCAACAGCAG CAGCAGCAAC AGCAGCAGCA
 GCAGCAGCAG CAGCCGCCCG CCGCGGCTCC CAATGTCCCG AAGCCCCGCG GCAGCGGCTC
 TCTAGCGTCT CCGCGCGCCG CCGCTTCGCC GTCTCTGCTC TCGTCTCTCT CGTCTCTGCG
 CAC

Allele Frequency Information:

POP Batch Id: SKB.2K.1:

Submitter Handle: FGU-CBT
 Submitter Method ID: SCA2-SNP
 Citation: Single Nucleotide Polymorphism in SCA2 Gene.

Handle|PopulationID: FGU-CBT| INDRP
 No. of Chromosomes Sampled: 215

Allele: C = 0.293 / G = 0.707

Fig.4(Cont.)



Reference SNP Record

NCBI SNP ID: rs695871

Reference SNP Record

General

[SNP Home](#)
[dbSNP Summary](#)
[How To Submit](#)
[Genome SNP RFA](#)
[FAQ](#)
[RefSNP Summary Info](#)
[FTP SERVER](#)
[Database Schema](#)
[Blast SNP](#)
[Submission Form](#)

Search

[Main Search](#)
[By Submitter](#)
[New Batches](#)
[Method](#)
[Population](#)
[Publication](#)
[By Gene Name](#)
[Chromosome Report](#)

NCBI Resource Links

GenBank: [U70323](#)
 LocusLink: no link established
 Integrated Maps: *under construction*

Submitter records for this ID:

Assay ID	Handle Local Submitter ID	Release Date
ss869704	FGU-CBT SKB.2K.1.1	Aug 2 2000 2:53PM

Variation Summary:

Assay sample size (number of chromosomes) : 430
 Population data sample size (number of chromosomes) :
 Total number of populations with frequency data: 1
 Total number of individuals with genotype data: 0
 Average estimated heterozygosity: 0.414
 Average Allele Frequency:

C:	0.293
G:	0.707

Validation Summary:

Marker displays Mendelian segregation: UNKNOWN
 PCR results confirmed in multiple reactions: YES
 Homozygotes detected in individual genotype data: UNKNOWN
 Insufficient genotype data to compute the goodness of fit to Hardy-Weinberg
 Insufficient data to compute individual x genotype consistency measures
 Validation status: *under construction*



Submitter Contact Details

General

[SNP Home](#)

[dbSNP Summary](#)

[How To Submit](#)

[Genome SNP RFA](#)

[FAQ](#)

[RefSNP Summary Info](#)

[FTP SERVER](#)

[Database Schema](#)

[Blast SNP](#)

[Submission Form](#)

Search

[Main Search](#)

[By Submitter](#)

[New Batches](#)

[Method](#)

[Population](#)

[Publication](#)

[By Gene Name](#)

[Chromosome Report](#)

This batch's contact information:

handle: FGU-CBT
 name: Shweta Choudhry
 fax: +91-11-7257471
 phone: +91-11-7416489
 email: shwetachoudhry@hotmail.com
 lab: Functional Genomics Unit
 institution: Centre for Biochemical Technology (CSIR)
 address: Delhi University Campus, Mall Road, Delhi- 110007, India.

Handle information for the lab:

handle: FGU-CBT
 name: Prof. Samir K. Brahmachari
 fax: +91-11-7257471
 phone: +91-11-7416489
 email: skb@cbt.res.in
 lab: Functional Genomics Unit
 institution: Centre for Biochemical Technology (CSIR),
 address: Delhi University Campus, Mall Road, Delhi- 110007, India.

**Population**

SNP Population Details - 558

General[SNP Home](#)[dbSNP Summary](#)[How To Submit](#)[Genome SNP RFA](#)[FAQ](#)[RefSNP Summary Info](#)[FTP SERVER](#)[Database Schema](#)[Blast SNP](#)[Submission Form](#)

Submitter Population Handle: FGU-CBT
Submitter Population ID: INDPOP
Population Text:

Continent: Asia
Nation: India

[View SNP used on this population](#)

Search[Main Search](#)[By Submitter](#)[New Batches](#)[Method](#)[Population](#)[Publication](#)[By Gene Name](#)[Chromosome Report](#)



Method

SNP Method Details - 564

[Genome SNP RFA](#)

[SNP Home](#)

[dbSNP Summary](#)

[How To Submit](#)

[Genome SNP RFA](#)

[FAQ](#)

[RefSNP Summary Info](#)

[FTP SERVER](#)

[Database Schema](#)

[Blast SNP](#)

[Submission Form](#)

[Search](#)

[Main Search](#)

[By Submitter](#)

[New Batches](#)

[Method](#)

[Population](#)

[Publication](#)

[By Gene Name](#)

[Chromosome Report](#)

Submitter Method Handle: FGU-CBT
 Submitter Method ID: SCA2-SNP
 Method Text:

The region containing the SNP was PCR amplified using the primers SCA2-FP3 (5' CTCCGCCTCAGACTGTTTTGGTAG 3') and SCA2-RP3 (5' GTGGCCGAGGACGACGAGAC 3'). Approximately 100ng of genomic DNA was amplified in a 50 ml reaction volume containing a final concentration of 5mM Tris, 25mM KCl, 0.75mM MgCl₂, 0.05% gelatin, 20pmol of each primer and 0.5U of Taq DNA polymerase. Samples were denatured at 94°C for 3 min followed by 35 cycles of denaturation (94°C, 45sec), annealing (52°C, 30sec), extension (72°C, 45sec) and a final extension of 7 min at 72°C in a Perkin Elmer GeneAmp PCR System 9600. The PCR product was purified from band cut out of the agarose gel using QIAquick gel extraction kit (Qiagen) and was directly sequenced using dye terminator chemistry on an ABI Prism 377 automated DNA sequencer with the PCR primers.

[View SNP found using this method](#)

[View SNP with population data obtained with this method](#)

Publication

SNP Publication Details

[SNP Home](#)[dbSNP Summary](#)[How To Submit](#)[Genome SNP RFA](#)[FAQ](#)[RefSNP Summary Info](#)[FTP SERVER](#)[Database Schema](#)[Last SNP](#)[Submission Form](#)

Submitter Handle: FGU-CBT

pmid:

MEDUID:

TITLE:

Single Nucleotide Polymorphism in SCA2 Gene.

AUTHOR:

CHOUDHRY, S.; BRAHMACHARI, S.K.

JOURNAL:

VOLUME:

SUPPL:

ISSUE:

I_SUPPL:

PAGES:

YEAR: 2000

STATUS: 1- unpublished

[Main Search](#)[By Submitter](#)[New Batches](#)[Method](#)[Population](#)[Publication](#)[By Gene Name](#)[Chromosome Report](#)

Search PubMed by author:

CHOUDHRY, S.; BRAHMACHARI, S.K.

[View SNP linked to this publication](#)

SNP Record

SNP Details

[SNP Home](#)
[dbSNP Summary](#)
[How To Submit](#)
[Genome SNP RFA](#)
[FAQ](#)
[RefSNP Summary Info](#)
[FTP SERVER](#)
[Database Schema](#)
[Blast SNP](#)
[Submission Form](#)

[Main Search](#)
[By Submitter](#)
[New Batches](#)
[Method](#)
[Population](#)
[Publication](#)
[By Gene Name](#)
[Chromosome Report](#)

SNP:
 Handle|local_snp_id: FGU-CBT | SKB.2K.1.2
 NCBI Assay Id(ss#): 869705
 Reference SNP Id(rs#): **695872**

STS Information: Not submitted

From SNP Database:

Submitter Handle: **FGU-CBT**
 Submitter Batch ID: **SKB.2K.1**
 Release Date: **Aug 2 2000 2:53PM**
 Molecular type: **Genomic**
 No. of Chromosomes sampled: **215**
 Synonym defined:
 Organism: **Homo sapiens**
 Population: **INDPOP**
 Submitter Method ID: **SCA2-SNP**
 Citation:
 Single Nucleotide Polymorphism in SCA2 Gene.

[View citation details](#)

NCBI Assay ID: 869705
 Submitter SNP ID: SKB.2K.1.2
 Synonyms:
 LOCUSID: **6311**
 Submitter STS ID:
 STS Accession: not available
 GenBank Accession: **D70323**
 Gene Name: Human ataxin-2 gene/ Spinocerebellar ataxia 2 (SCA2) gene
 Length: 459

Flanking Sequence Information:

5' Assay: CTCGCCTCA GACTGTTTG GTAGCAACGG CAACGGCGGC GCGCGTTTC GGCCCGGCTC
 CCGGCGGCTC CTGGGTCTCG GCGGGCTCC CCGCCCTTC GTCGTCTCC TTCTCCCTCT
 CGCCAGCCCG GCGCCCTCC CGGCGCGCC AACCCGCGC TCCCGCTCG GCGCCCG

Observed: T/C

3' Assay: GCGTCCCCGC CGCGTTCCCG CGTCTCCTTG GCGCGCCCGG CTCCCGGCTG TCCCGGCCCCG
 GCGTGCGAGC CGGTGTATGG GCGCTCACC ATGTGCT

3' Flank: GAAGCCCCAG CAGCAGCAGC AGCAGCAGCA GCAACAGCAG CAGCAGCAAC AGCAGCAGCA
 GCAGCAGCAG CAGCCGCGCG CCGCGGCTGC CAATGTCCGC AAGCCCGGCG GCAGCGGCTT
 TCTAGCGTGC CCGCGCGCGG CGCCTTCGCC GTCTCTGTCC TCGGTCTCCT CGTCTCTGGC
 CAC

Allele Frequency Information:

POP Batch ID: SKB.2K.1:

Submitter Handle: **FGU-CBT**
 Submitter Method ID: **SCA2-SNP**
 Citation:
 Single Nucleotide Polymorphism in SCA2 Gene.

Handle|PopulationID: FGU-CBT|**INDPOP**
 No. of Chromosomes Sampled: 215

Allele: C = 0.293 / T = 0.707

RefSNP Record

Reference SNP Record

[SNP Home](#)
[SNP Summary](#)
[How To Submit](#)
[Genome SNP RFA](#)
[FAQ](#)
[RefSNP Summary Info](#)
[FTP SERVER](#)
[Database Schema](#)
[Blast SNP](#)
[Submission Form](#)

NCBI SNP ID: rs695872

NCBI Resource Links

GenBank: [U70323](#)

LocusLink: no link established

Integrated Maps: *under construction*

Submitter records for this ID:

Assay ID	Handle Local Submitter ID	Release Date
ss869705	FGU-CBT SKB.2K.1.2	Aug 2 2000 2:53PM

Variation Summary:

Assay sample size (number of chromosomes) : 430
Population data sample size (number of chromosomes) :
Total number of populations with frequency data: 1
Total number of individuals with genotype data: 0
Average estimated heterozygosity: 0.414
Average Allele Frequency:

C	0.293
T	0.707

Validation Summary:

Marker displays Mendelian segregation: UNKNOWN
PCR results confirmed in multiple reactions: YES
Homozygotes detected in individual genotype data: UNKNOWN
Insufficient genotype data to compute the goodness of fit to Hardy-Weinberg
Insufficient data to compute individual x genotype consistency measures
Validation status: *under construction*

[Main Search](#)
[By Submitter](#)
[New Batches](#)
[Method](#)
[Population](#)
[Publication](#)
[By Gene Name](#)
[Chromosome Report](#)

Publication

SNP Publication Details

[SNP Home](#)[dbSNP Summary](#)[How To Submit](#)[Genome SNP RFA](#)[FAQ](#)[RefSNP Summary Info](#)[FTP SERVER](#)[Database Schema](#)[Blast SNP](#)[Submission Form](#)

Submitter Handle: FGU-CBT

pmid:

MEDID:

TITLE:

Single Nucleotide Polymorphism in SCA2 Gene.

AUTHOR:

CHOUDHRY,S.; BRAHMACHARI,S.K.

JOURNAL:

VOLUME:

SUPPL:

ISSUE:

I_SUPPL:

PAGES:

YEAR:

2000

STATUS:

1- unpublished

Search PubMed by author:

[CHOUDHRY,S.; BRAHMACHARI,S.K.](#)[Main Search](#)[By Submitter](#)[New Batches](#)[Method](#)[Population](#)[Publication](#)[By Gene Name](#)[Chromosome Report](#)[View SNP linked to this publication](#)

Population

SNP Population Details - 558

[SNP Home](#)
[dbSNP Summary](#)
[How To Submit](#)
[Genome SNP REF](#)
[FAQ](#)
[RefSNP Summary Info](#)
[FTP SERVER](#)
[Database Schema](#)
[Blast SNP](#)
[Submission Form](#)

Submitter Population Handle: FGU-CBT
 Submitter Population ID: INDPOP
 Population Text:

Continent: Asia
 Nation: India

[View SNP used on this population](#)

[Main Search](#)
[By Submitter](#)
[New Batches](#)
[Method](#)
[Population](#)
[Publication](#)
[By Gene Name](#)
[Chromosome Report](#)

009077 67620 07919 110800

Method

SNP Method Details - 564[SNP Home](#)[dbSNP Summary](#)[How To Submit](#)[Genome SNP REA](#)[FAQ](#)[RefSNP Summary Info](#)[FTP SERVER](#)[Database Schema](#)[Blast SNP](#)[Submission Form](#)

Submitter Method Handle: FGU-CBT
 Submitter Method ID: SCA2-SNP
 Method Text:

The region containing the SNP was PCR amplified using the primers SCA2-FP3 (5' CTCGCCCTCAGACTGTTTGGTAG 3') and SCA2-RP3 (5' GTGCCCGAGGACGAGGAGAC 3'). Approximately 100ng of genomic DNA was amplified in a 50 µl reaction volume containing a final concentration of 5mM Tris, 25mM KCl, 0.75mM MgCl₂, 0.05% gelatin, 20pmol of each primer and 0.5U of Taq DNA polymerase. Samples were denatured at 94°C for 3 min followed by 35 cycles of denaturation (94°C, 45sec), annealing (52°C, 30sec), extension (72°C, 45sec) and a final extension of 7 min at 72°C in a Perkin Elmer GeneAmp PCR System 9600. The PCR product was purified from band cut out of the agarose gel using QIAquick gel extraction kit (Qiagen) and was directly sequenced using dye terminator chemistry on an ABI Prism 377 automated DNA sequencer with the PCR primers.

[View SNP found using this method](#)[View SNP with population data obtained with this method](#)[Main Search](#)[By Submitter](#)[New Batches](#)[Method](#)[Population](#)[Publication](#)[By Gene Name](#)[Chromosome Report](#)

07919 " 110600

Submitter

Submitter Contact Details

[SNP Home](#)[SNP Summary](#)[How To Submit](#)[Genome SNP REA](#)[FAQ](#)[RefSNP Summary Info](#)[FTP SERVER](#)[Database Schema](#)[Blast SNP](#)[Submission Form](#)[Main Search](#)[By Submitter](#)[New Batches](#)[Method](#)[Population](#)[Publication](#)[By Gene Name](#)[Chromosome Report](#)

This batch's contact information:

handle: FGU-CBT
 name: Shweta Choudhry
 fax: +91-11-7257471
 phone: +91-11-7416489
 email: shwetachoudhry@hotmail.com
 lab: Functional Genomics Unit
 institution: Centre for Biochemical Technology (CSIR)
 address: Delhi University Campus, Mall Road, Delhi- 110007, India.

Handle information for the lab:

handle: FGU-CBT
 name: Prof. Samir K. Brahmachari
 fax: +91-11-7257471
 phone: +91-11-7416489
 email: skb@cgt.res.in
 lab: Functional Genomics Unit
 institution: Centre for Biochemical Technology (CSIR),
 address: Delhi University Campus, Mall Road, Delhi- 110007, India.



Nucleotide

Search for

☐ Hide Brief and LinkBar

☐ 1: GI = "1679683" [GenBank] Human ataxin-2 (SCA2) mRNA.... PubMed, Protein, Related Sequences, Taxonomy, OMIM, LinkOut

LOCUS H5U70323 4481 bp mRNA PRI 20-NOV-1996
 DEFINITION Human ataxin-2 (SCA2) mRNA, complete cds.
 ACCESSION U70323
 VERSION U70323.1 GI:1679683
 KEYWORDS
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 4481)
 AUTHORS Pulst, S.-M., Nechiporuk, A., Nechiporuk, T., Gispert, S., Chen, X.-N.,
 Lopes-Cendes, I., Pearlman, S., Starkman, S., Orozco-Diaz, G.,
 Lunke, A., DeJong, P., Rouleau, G.A., Auburger, G., Korenberg, J.R.,
 Figueroa, C. and Sahba, S.
 TITLE Moderate expansion of a normally biallelic trinucleotide repeat in
 spinocerebellar ataxia type 2
 JOURNAL Nature Genet. 14 (3), 269-276 (1996)
 MEDLINE 97051920
 REFERENCE 2 (bases 1 to 4481)
 AUTHORS Pulst, S.-M.
 TITLE Direct Submission
 JOURNAL Submitted (10-SEP-1996) Medicine, Cedars-Sinai, 8700 Beverly Blvd.,
 Los Angeles, CA 90048, USA
 FEATURES
 source
 1..4481
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /chromosome="12"
 /map="12q24.1"
 163..4101
 /gene="SCA2"
 163..4101
 /gene="SCA2"
 /standard_name="spinocerebellar ataxia type 2"
 /codon_start=1
 /product="ataxin-2"
 /protein_id="A31922"
 /db_xref="GI:1679684"
 /translation="MRSAAAAPRSPAVATESRRFAAARWPCWRSLQRPARRSGRCGGG
 AAPGFPYSAAPPFGPGPPSRQSSPPSASDCFGSNGNGGGAFRPGSRLLGLGGPPR
 PFVVVLLPLASGAPPAAPTRASPLGARASPPRSGVSLARPAGCPRPACPEVYGPLT
 MSLKPGQQQQQQQQQQQQQQQQQQQQPPPAANVRKPGSGLLASPAAPSPSSSV
 SSSSATAPSSVVAATSCGGRPLGRGRNSNKGLPQSTISFDGIYANRNVHILTSVVG
 SKCEVQVQNGGIYEGVFKTYSKCDLVLDAAHEKSTESSSGPKREEIDHSILFKCSDP
 VVVQFKNDSSYAJRDAPTDLSAISAKVNGEHKEKDLFPWDAGELTANEELEALENDVS
 NGWDPNMDFRYNEENYGVVSTYDSSLSSYTVPLERDENSEEFLKREARANQLAEEIESS
 AQYKARVALENDRSEEEKYTAQVRNSSEREGHSINTRENKTIPPQQRNREVISWGS
 RQNSPRMGCPGSGSNPSRSTSHTSDFNPNNSGSDQVVVNGGVFWPSPCPSPSRPPSRY
 QSGPNSLPRAATPTPRPPSRPPSRPSRPPSHPSAHSPPAPVSTPKRHSSEGPFRMS
 KAQRHPRNHRVSAGRGSISSGLEFVSHNPPSEATPPVARTSPSGGTWSSVVSVPRL
 SPKTHRPRSPRONSIGNTPSGPVLASPAAGIIPTEAVAMPIPAASPTPASPNRAVT
 PSSEAKDSRLQDQRQNSPAGNKENIKPNETSPSPSKAENKGISPVVSEHRKQIDDLK
 FKNDPRLQPSSTSESDQLLNQNRGEKSRDLIKDKIEPSAKDSFIENSSSNTSGSS
 KPNSPSISPSILNTHQRCPEVTSQGVQTSPPACKQEKDDKEKDDAAEQVRKSTLN
 PNAKEFNPSPRSQPKPTTPTSPRPAQPSPMVGHQQPTPVYTPVCFAPIHHYVVP
 VSPGVQPLYPIPHTPHVNQAKTYRAVENMPQQRQDQHQSAHGHAPASAAGPPIAATP
 PAYSTQYVAYSPOQFPNQPLVQHVPHYQSHPHVYSPVIQGNARHMAPPTHAQPLVS
 SSATQYGAHQTHANYACPKLPYNKETSPPSYFAISTGSLAQYAHPNATLHPHTPH
 QPSATPTQQQSQHGGSHAPSPVQHQQHQAALHLASPPQQSAIYHAGLAPTPPSM
 TPAENTQSPQNSFPAAQQTFTTTHPSHVQPAYTNPPHNAHVPAHVQSCNVPSHPTAH
 APHGLNTTPPCGPAALAQSAQPTIPVSTTAHFPYKTHPSVQAHHQQQL"

BASE COUNT 1144 a 1380 c 1014 g 943 t

file:///Macintosh%20HD/Desktop/120%20of%20older%20sequences/ataxin%20SCA2%20nucleotide

Figure : 6

Wednesday, September 27, 2000

NCBI Sequence Viewer

Page: 2

ORIGIN

1 acccccggaga aagcaaccca ggcgcgcgcg cgtccctcac gtgtccctcc cggccccggg
61 gccacctcac gttctgtctc cgtctgaccc ctccgacttc cgttaaaagag tccctatccg
121 cacctccgct cccacccggc gccctggcgc gcccgccctc cgtatgcgctc agcggccgca
181 gctcctcgga gtccccgggt gccacccgag tctcgcgcgt tcggccgcagc cagggtggccc
241 ggggtggcgt cgtcccagcg gccgcgcgcg cggagcgggc gggggcgcg tggcgcggcc
301 cggggaccgt atccctccgc cgcctctccc ccgccccggc cggccccccc tccctcccg
361 cagagctcgc ctccctccgc ctccagactg ttggtagca acggcaacgg cggcggcgcg
421 ttctcggccc gctccggcgc gctccttggg ctcccggggc ctccccgccc ctctcgtctc
481 gtccctctcc ccctcgccag cccggggcgc ctccggcgcg cgcacacccg cgcctccccg
541 ctccggcgccc gtgcgtcccc gccgcgttcc ggcgctctct tggcgcgccc ggctccccgg
601 tgtccccggc cggcgttgcg gccggtgtat gggcccccca ccatgtcgct gaagccccag
661 cagcagcagc agcagcagca gcaacagcag cagcagcaac agcagcagca gcagcagcag
721 cagccggcgcc cggcggtgct caatgtccgc aagcccgggc gcagcgccct tctagcgctc
781 cccgcgcggc cgccttcgct gctcctctcc tcggctctct cgtcctcggc cagcgctccc
841 tctctcgggg tcggcgcgac ctccggcggc gggagggccc gccctggcag aggtcgaaac
901 agtaacaaag gactgcctca gtctacgatt tcttttgatg gaattctatg aaatatgagg
961 atgggttcata tacttacatc agttgttggc tccaaatgtg agtacaagt gaaaaatgga
1021 ggtatatatg aaggagtttt taaaaactac agtccgaagt gtgatttggg acttgatgcc
1081 gcacatgaga aaagtacaga atccagttcg gggccgaaac gtgaagaaat aatggagagt
1141 attttgttca aatgttcaga ctttgttggg gtacagttta aagatatgga ctccagttat
1201 gcaaaaagag atgcttttct tgactctgct atcagtgcga aagtgaatgg cgaacacaaa
1261 gagaaggacc tggagccctg ggtgacaggt gaactcacag ccaatgagga acttgaggct
1321 ttggaaaatg acgtatctaa tggatgggat cccaatgata tgtttcgata taatgaagaa
1381 aattatgggt tagtgtctac tatgatagc agtttatctt cgtatacagt gcccttagaa
1441 agagataact cagaagaatt tttaaaacgg gaagcaaggg caaacagatt agcagaagaa
1501 attgagtcga gtgcccagta caaagctcga gtggccctgg aaaaatgata taggagtgag
1561 gaagaaaaat acacagcagt tcagagaat tccagtgaac gtgaggggca cagcataaac
1621 actagggaaa ataaatatat tctctctgga caaagaataa gagaagtcac atcctggggg
1681 agtgggagac agaattcacc gcgtatgggc cagcctggat cgggctccat gccatcaaga
1741 tccacttctc acacttcaga tttcaaccgg aattctgggt cagaccaaag agtagttaat
1801 gtaggtgttc cctggcctc gcccttgcca tctccttctc ctccgccacc ttctcgctac
1861 cagtccagtc ccaactctct tccacctcgg gcagccaccc ctacacggcc gccctccagg
1921 cccccctcgc gggcatccag acccccgctt caccctctg ctcatggttc tccagctctt
1981 gtctctacta tgcctaaacg catgtcttca gaagggcctc caaggtatgc cccaagggcc
2041 cagcgacatc ctcgaaatca cagagtttct gctgggaggg gttccatcct cagtggccta
2101 gaatttggat cccacaaccc acccagtgaa gcagctactc ctccagtacg aaggaccagt
2161 cctcgggggg gaacgtggtc atcagtgggc agtgggggtc caagattatc cctaaaact
2221 catagcccca ggttctccag acagaaacgt attggaaata cccccagtgg gccagttctt
2281 gcttctcccc aagctgggat tattccaaat gaagctgttg ccatgcttat tccagctgca
2341 tctcctacgc ctgctactcc gtcactgaac agagctgtta ccccttctag tgaggctaaa
2401 gattccaggc ttcaagatca gaggcagaac tctcctcgag ggaataaaga aaatatataa
2461 cccaagtga aatcaactag ctctcaaaaa gctgaataca aaggtatcct accagttgtt
2521 tctgaacata gaaaaacagt tgatgattta aagaaattta agaatgattt taggttacag
2581 ccaagttcta ctcttgaatc tatggtcaaa ctactaaaca aaaaatagaga gggagaaaaa
2641 tcaagagatt tgactaaacg caaaattgaa ccaagtgcga aggattcttt cattgaaaa
2701 agcagcagca actgtaccag tggcagcagc aagccgaata gccccagcat ttccccctca
2761 atacttagta acacggagca caagagggga cctgaggtca cttcccaggg ggttcagact
2821 tccagcccgag catgtaaacg agagaagac gataaggaag agaagaaga cgcagctgag
2881 caagttagga aatcaacatt gaatcccaat gcaaggaggt tcaaccacag ttcttctctt
2941 cagccaaagc ctctactac cccaacttca cctcggcctc aagcacaacc tagccctctt
3001 atgggtgggt atcaaacagg aactccagtt tatactcagc ctgtttgttt tgcaccaa
3061 atgatgtatc cagtccccag gagcccgagg gtgcaacctt tatacccaat acctatgacg
3121 ccaatgccag tgaatcaagc caagacata agagcagtac caaatatgcc ccaacagcgg
3181 caagaccagc atcatcagag tggcatgatg caccagcggt cagcagcggg cccaccgatt
3241 gacgccaccc caccagctta ctccacgcaa tatgttgctt acagtcttca gcagtcccc
3301 aatcagcccc ttgttcagca tctgcccacat tatcagttct agcatcttca ggtctatagt
3361 cctgtaatac agggtaatgc tagaatgatg gcaccaccaa cacacgcccc gcctggttta
3421 gtatcttctt cagcaactca gtacgggggt catgagcaga cgcagtcgat gtatgcagt
3481 ccaaaattac catacaacaa ggagacaagc ccttcttctt actttgccc atccacgggc
3541 tcccttgctc agcagtatgc gcaccctaac gctaccctgc acccacatac tccacacccc
3601 cagccttcag ctacccccac tggacagcag caaagccaac atgggtggaag tcatcctgca
3661 cccagtcctg ttcagacca tcagcaccag gccgcccagg ctctccatct ggcagttcca
3721 cagcagcagt cagccattta ccacggggg cttygcgcaa ctccaccctc catgacacct
3781 gcttccaaca cgcagtcgct acagaatagt ttcccagcag caaacacagac tgtctttacg
3841 atccatctct ctacagttca gccggcggtat accaaccacac cccacatggc ccacgtacct
3901 caggtctcat taccagttag aatggttctt tctcatccaa ctgcccagtc gccaatgatg
3961 cttaatgacg cacagccacc cggcggtccc caggccgccc tcgctcaaaag tgcactacag
4021 cccattccag tctcgacaac agcgcatttc ccttatatga cgcacccttc agtacaagcc
4081 caccaccaac agcagttgta aggtgcccc ttgaggaaccg aagggccaaa ttccctcttc
4141 ccttctactg ctctctacaa ctggaagcac agaaaactag aatttctatt attttgttt
4201 taaaatatat atgttgattt ctgttaacat ccaataggaa tgcatacagt tcaacttgag
4261 tgggaagata ttggaccgag tagaggtatt taggaacttg ggggtctatt cataatcca
4321 tatgctgctt cagagtcctc caggtacccc agctctgctt gccgaactg gaagtatttt
4381 attttttaat aacccttgaa agtcatgaac acatcagcta gcaaaagaa taacaagagt
4441 gattcttgcg gctattactg ctaaaaaaa aaaaaaaa a

File: //Accession: U3940/Develop: 1.0/older/Accession: U3940/Accession: U3940/Accession: U3940

Fig.6(Cont.)